

10/049,633

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(FILE 'HOME' ENTERED AT 14:29:04 ON 01 FEB 2005)

FILE 'BIOSIS, MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 14:29:21 ON
01 FEB 2005

L1 4654 S IMMOBILIZATION? (5A) POLYMER?
L2 106 S L1 AND SURFACE? (22A) (HALO? OR ALDEHYDE?)
L3 39 S L2 AND (POLYMER? OR BIOPOLYMER?) (10A) AMINO?
L4 39 DUP REM L3 (0 DUPLICATES REMOVED)
L5 31 S L4 AND SOLID
L6 15 S L5 AND SILICON

=> s l1 and schiff

L7 57 L1 AND SCHIFF

=> s l7 and schiff base

L8 35 L7 AND SCHIFF BASE

=> s l8 and aldehyde

L9 16 L8 AND ALDEHYDE

=> s l9 and silicon or glass

L10 1759462 L9 AND SILICON OR GLASS

<-----User Break----->

=>

=> s l9 and (silicon or glass)

L11 11 L9 AND (SILICON OR GLASS)

=> dup rem l11

PROCESSING COMPLETED FOR L11

L12 11 DUP REM L11 (0 DUPLICATES REMOVED)

=> d l12 bib abs 1-11

L12 ANSWER 1 OF 11 USPATFULL on STN

AN 2005:24237 USPATFULL

TI Polymer microspheres containing latent colorants and method of
preparation

IN Leon, Jeffrey W., Rochester, NY, UNITED STATES

Qiao, Tiecheng A., Webster, NY, UNITED STATES

McCovick, Robert E., Hilton, NY, UNITED STATES

PA Eastman Kodak Company (U.S. corporation)

PI US 2005020786 A1 20050127

AI US 2004-876871 A1 20040625 (10)

RLI Division of Ser. No. US 2003-625684, filed on 23 Jul 2003, PENDING

DT Utility

FS APPLICATION

LREP Paul A. Leipold, Patent Legal Staff, Eastman Kodak Company, 343 State
Street, Rochester, NY, 14650-2201

CLMN Number of Claims: 49

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1562

AB The present invention relates to a polymer microsphere comprising at
least one polymer and at least one bound latent colorant, wherein the
microsphere is stabilized by at least one stabilizing polymer. The
invention also includes a method of preparing polymer microspheres
comprising combining latent colorant, ethylenically unsaturated monomer,

stabilizing polymer, and an initiator in solvent and initiating polymerization to form a polymeric microsphere stabilized by a stabilizing polymer bound to the surface of the polymeric microsphere.

L12 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2002:315210 CAPLUS
 DN 136:337310
 TI Biosupport of dendrimer-immobilized biopolymer and preparation
 IN Lee, Younghoon
 PA Macrogen Inc., S. Korea
 SO PCT Int. Appl., 29 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002033412	A1	20020425	WO 2001-KR916	20010531
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	KR 2002029818	A	20020420	KR 2000-60540	20001014
	AU 2001060774	A5	20020429	AU 2001-60774	20010531
	JP 2004511804	T2	20040415	JP 2002-536548	20010531
PRAI	KR 2000-60540	A	20001014		
	WO 2001-KR916	W	20010531		

AB The present invention relates to a bio-support and preparing method of the same, and more particularly, to a method for immobilizing the bio-polymer on a **glass** slide when the biochip is prepared The preparing method of bio-support comprises the following steps, (a) forming a dendrimer monolayer by generating **Schiff base** between **aldehyde** groups on a silylated slide and dendrimer; and (b) converting non-reacted **aldehyde** groups to alc. groups on the slide (a). The bio-supports of the present invention provide three-dimensional space for effective **immobilization** of bio-**polymers**. Also, the bio-supports can promote complementary interactions between bio-polymers. Silylated slides were reacted with PAMAM dendrimer (generation 3) for 1-2 days, and nonreacted **aldehyde** groups were converted to alc. groups using sodium borohydride. The dried slide was treated with 1,4-phenylene diisothiocyanate and then with an oligonucleotide having an amine group at the 3'-terminus. The biosupport provided a high hybridization yield in addition to improved oligonucleotide immobilization.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 11 USPATFULL on STN
 AN 2002:222186 USPATFULL
 TI Method for coating medical device surfaces
 IN Keogh, James R., Maplewood, MN, UNITED STATES
 Trescony, Paul V., Champlin, MN, UNITED STATES
 Verhoeven, Michel, Maastricht, NETHERLANDS
 Koullick, Edouard, Maastricht, NETHERLANDS
 PI US 2002120333 A1 20020829
 AI US 2002-54447 A1 20020122 (10)

PRAI US 2001-265370P 20010131 (60)
DT Utility
FS APPLICATION
LREP Kenneth J. Collier, Medtronic, Inc., 710 Medtronic Parkway, Minneapolis,
MN, 55432-5604
CLMN Number of Claims: 236
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 2894

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for coating a medical device with a hydrophilic polymer is provided. One method of the present invention includes chemically binding under appropriate reaction conditions a hydrophilic polymer to a biomaterial surface. Another method of the present invention includes chemically binding under appropriate reaction conditions a hydrophilic polymer to a primer located on a biomaterial surface. Another method of the present invention includes chemically binding under appropriate reaction conditions a biomolecule to a hydrophilic polymer located on a biomaterial surface.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 4 OF 11 USPATFULL on STN
AN 2001:125960 USPATFULL
TI Aminimide-containing molecules and materials as molecular recognition agents
IN Hogan, Jr., Joseph C., Belmont, MA, United States
PA Arqule, Inc., Woburn, MA, United States (U.S. corporation)
PI US 6271195 B1 20010807
AI US 1999-426547 19991022 (9)
RLI Continuation of Ser. No. US 1996-765173, filed on 16 Feb 1996, now patented, Pat. No. US 5981467 Continuation of Ser. No. US 1995-204206, filed on 27 Mar 1995, now patented, Pat. No. US 5705585 Continuation-in-part of Ser. No. US 1992-906769, filed on 30 Jun 1992, now abandoned Continuation-in-part of Ser. No. US 1992-906770, filed on 30 Jun 1992, now abandoned Continuation-in-part of Ser. No. US 1993-41559, filed on 2 Apr 1993, now abandoned
DT Utility
FS GRANTED
EXNAM Primary Examiner: Nutter, Nathan M.
LREP Pennie & Edmonds LLP
CLMN Number of Claims: 14
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 2813

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The design and synthesis of novel aminimide-based molecular modules and the use of the modules in the construction of new molecules and fabricated materials is disclosed. The new molecules and fabricated materials are molecular recognition agents useful in the design and synthesis of drugs, and have applications in separations and materials science.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 5 OF 11 USPATFULL on STN
AN 1999:141874 USPATFULL
TI Aminimide-containing molecules and materials as molecular recognition agents
IN Hogan, Jr., Joseph C., Belmont, MA, United States
PA Arqule, Inc., Medford, MA, United States (U.S. corporation)
PI US 5981467 19991109

AI US 1996-765173 19960216 (8)
RLI Continuation of Ser. No. US 1995-204206, filed on 27 Mar 1995, now
patented, Pat. No. US 5705585
DT Utility
FS Granted
EXNAM Primary Examiner: Nutter, Nathan M.
LREP Pennie & Edmonds LLP
CLMN Number of Claims: 9
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 2718

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The design and synthesis of novel aminimide-based molecular modules and
the use of the modules in the construction of new molecules and
fabricated materials is disclosed. The new molecules and fabricated
materials are molecular recognition agents useful in the design and
synthesis of drugs, and have applications in separations and materials
science.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 6 OF 11 USPATFULL on STN
AN 1999:1328 USPATFULL
TI Bioactive conjugates of cellulose with amino compounds
IN Margel, Shlomo, Rehovot, Israel
Sturchak, Sophia, Tel Aviv, Israel
PA Bar Ilan University, Ramat Gan, Israel (non-U.S. corporation)
PI US 5855987 19990105
AI US 1995-416351 19950404 (8)
RLI Division of Ser. No. US 1994-196390, filed on 10 Feb 1994, now patented,
Pat. No. US 5516673
PRAI IL 1993-104734 19930215
DT Utility
FS Granted
EXNAM Primary Examiner: Lee, Helen
LREP Darby & Darby
CLMN Number of Claims: 4
ECL Exemplary Claim: 1
DRWN 26 Drawing Figure(s); 17 Drawing Page(s)
LN.CNT 1214

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Polymers containing a plurality of free hydroxy groups, such as
cellulose, agarose or polyvinyl alcohol, are contacted in absence of
reactants for hydroxy groups, with at least one N-heterocyclic compound,
e.g. pyridine, pyrrole, pyridazine, their partially or fully
hydrogenated analogs and any of these which may be substituted, in a
pre-activation step prior to reaction with reactant for free hydroxy
groups in the polymer, the polymer-bound residue of which reactant may
be thereafter reacted in turn with amino compounds containing at least
one unsubstituted N-attached hydrogen atom, e.g. proteins, thereby to
form amine-polymer conjugates. The invention further relates to a
powder, bandage, patch or like cover for application to wounds which has
been manufactured from polymer containing a plurality of hydroxy groups
by a process which includes the step of providing an amine conjugated to
the polymer; the amine may be, e.g., trypsin, chymotrypsin, lysozyme,
collagenase, albumin and hyaluronidase.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 7 OF 11 USPATFULL on STN
AN 1998:1866 USPATFULL
TI Aminimide-containing molecules and materials as molecular recognition

agents

IN Hogan, Jr., Joseph C., Belmont, MA, United States

PA ArQule, Inc., Medford, MA, United States (U.S. corporation)

PI US 5705585 19980106

WO 9401102 19940120

AI US 1995-204206 19950327 (8)

WO 1993-US6241 19930630

19950327 PCT 371 date

19950327 PCT 102(e) date

DT Utility

FS Granted

EXNAM Primary Examiner: Schofer, Joseph L.; Assistant Examiner: Cheng, Wu C.

LREP Pennie & Edmonds

CLMN Number of Claims: 8

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 2324

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The design and synthesis of novel aminimide-based molecular modules and the use of the same in the construction of new molecules and fabricated materials is disclosed. The new molecules and fabricated materials are molecular recognition agents useful in the design and synthesis of drugs and have applications in separations and material science.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 8 OF 11 USPATFULL on STN

AN 96:41113 USPATFULL

TI Bioactive conjugates of cellulose with amino compounds

IN Margel, Shlomo, Rehovot, Israel

Sturchak, Sophia, Tel Aviv, Israel

PA Bar Ilan University, Ramat Gan, Israel (non-U.S. corporation)

PI US 5516673 19960514

AI US 1994-196390 19940210 (8)

PRAI IL 1993-104734 19930215

DT Utility

FS Granted

EXNAM Primary Examiner: Lilling, Herbert J.

LREP Darby & Darby

CLMN Number of Claims: 5

ECL Exemplary Claim: 1

DRWN 26 Drawing Figure(s); 17 Drawing Page(s)

LN.CNT 1254

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Polymers containing a plurality of free hydroxy groups, such as cellulose, agarose or polyvinyl alcohol, are contacted in absence of reactants for hydroxy groups, with at least one N-heterocyclic compound, e.g. pyridine, pyrrole, pyridazine, their partially or fully hydrogenated analogs and any of these which may be substituted, in a pre-activation step prior to reaction with reactant for free hydroxy groups in the polymer, the polymer-bound residue of which reactant may be thereafter reacted in turn with amino compounds containing at least one unsubstituted N-attached hydrogen atom, e.g. proteins, thereby to form amine-polymer conjugates. The invention further relates to a powder, bandage, patch or like cover for application to wounds which has been manufactured from polymer containing a plurality of hydroxy groups by a process which includes the step of providing an amine conjugated to the polymer; the amine may be, e.g., trypsin, chymotrypsin, lysozyme, collagenase, albumin and hyaluronidase.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 9 OF 11 USPATFULL on STN

AN 93:80843 USPATFULL

TI Formation of colloidal metal dispersions using aminodextrans as reductants and protective agents

IN Siiman, Olavi, Davie, FL, United States

Burshteyn, Alexander, Miami Lakes, FL, United States

PA Coulter Corporation, Miami, FL, United States (U.S. corporation)

PI US 5248772 19930928

AI US 1992-827347 19920129 (7)

DT Utility

FS Granted

EXNAM Primary Examiner: Griffin, Ronald W.

LREP Silverman, Cass & Singer, Ltd.

CLMN Number of Claims: 37

ECL Exemplary Claim: 1

DRWN 7 Drawing Figure(s); 4 Drawing Page(s)

LN.CNT 930

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention related generally to the preparation of colloidal metal(O) particles having a crosslinked aminodextran coating with pendent amine groups attached thereto. The aminodextran acts as both a reductant for reducing metal ions to metal(O) particles and as the protective agent which coats the metal(O) particles thus formed. After stabilizing the aminodextran coating by use of a crosslinking agent, the coated particles can be used to covalently bind proteins. The resulting protein containing colloidal particles can be used as markers in optical and electron microscopy, in immunological and biological assays, and possibly as therapeutic agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 10 OF 11 USPATFULL on STN

AN 93:26959 USPATFULL

TI Carrier for a biologically active component for immunoassay or enzymatic reaction

IN Ishida, Hiroshi, Machida, Japan

Higo, Yuji, Nagoya, Japan

Inoue, Masuo, Komae, Japan

PA Toyo Soda Manufacturing Co., Ltd., Shin-nanyo, Japan (non-U.S. corporation)

PI US 5200270 19930406

AI US 1991-762085 19910919 (7)

RLI Continuation-in-part of Ser. No. US 1989-400872, filed on 30 Aug 1989, now abandoned which is a continuation of Ser. No. US 1986-881692, filed on 3 Jul 1986, now abandoned

PRAI JP 1986-38279 19860225

DT Utility

FS Granted

EXNAM Primary Examiner: Lesmes, George F.; Assistant Examiner: Brown, Christopher

LREP Oblon, Spivak, McClelland, Maier & Neustadt

CLMN Number of Claims: 21

ECL Exemplary Claim: 1

DRWN 5 Drawing Figure(s); 5 Drawing Page(s)

LN.CNT 737

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A carrier for a biologically active component for immunoassay or enzymatic reaction, which comprises:

a) a thermoplastic resin bead having an average diameter of from 0.05 to 20 mm,

b) from 1 to 25% by weight, based on the bead, of a magnetically responsive powder bonded to the bead, and

c) a polymer coated thereon in a thickness of from 2 to 30 μm , said polymer having a number average molecular weight of from 200 to 10,000 and having functional groups capable of binding, or being activated to bind, the biologically active component.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 11 OF 11 USPATFULL on STN

AN 88:11465 USPATFULL

TI Binding assays involving formation and detection of light scattering crystals

IN Koocher, Martin, 90 Middle St., Lexington, MA, United States 02173

Burg, Alan, 75 Fuller Ter., West Newton, MA, United States 02165

PI US 4727024 19880223

AI US 1986-862072 19860512 (6)

DT Utility

FS Granted

EXNAM Primary Examiner: Marantz, Sidney

LREP Prashker, David

CLMN Number of Claims: 29

ECL Exemplary Claim: 1

DRWN 11 Drawing Figure(s); 5 Drawing Page(s)

LN.CNT 1461

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A methodology for the detection of an analyte of interest in a fluid sample through the formation, growth, and optical detection of light scattering crystals. The methodology provides for direct assay and competitive binding assay protocols using pairs of specifically binding compositions and novel innovations in crystal growth technology to provide an analytical method which is useful in immunodiagnostic, environmental, and biochemical applications. The methodology and test kit apparatus provides rapid, reproducible, and accurate data and is sensitive for the detection of an analyte of interest present in the nanogram per milliliter range.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.